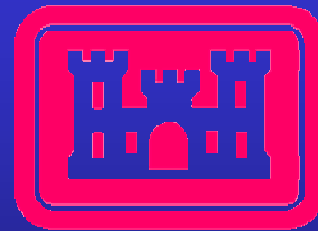


# New England District New Hampshire FY 2008 Dredging Program



**US Army Corps  
of Engineers®**  
New England District

170 Navigation Projects

68 Deep Draft Projects

13 Deep Draft Projects 31 feet or Greater

135 Breakwaters or Jetties

38 Beach Erosion Projects

473 Miles of Channel

41 miles of Breakwater

2,006 Acres of Anchorage

6,130 Miles of Shoreline





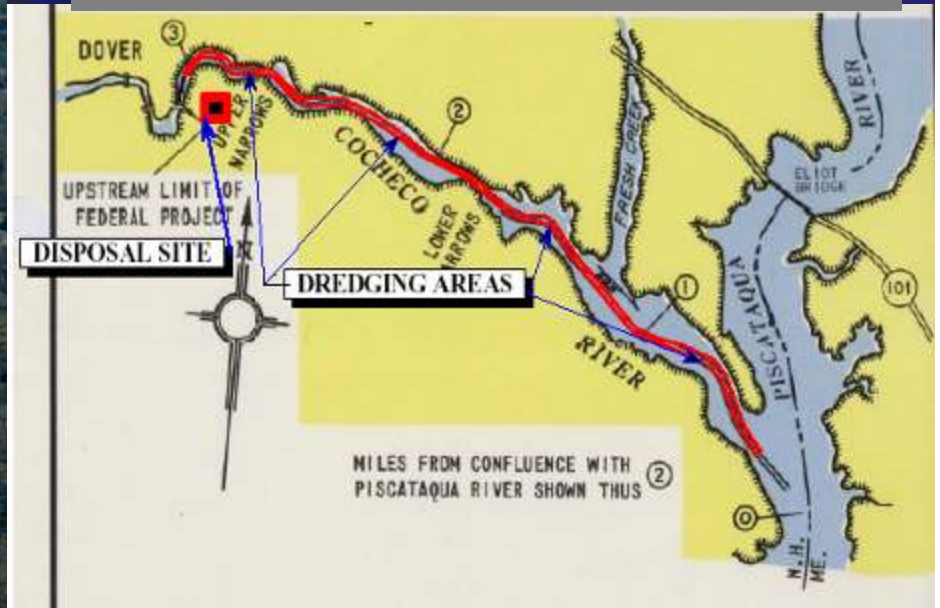
# New Hampshire Federal Navigation Projects

**13 miles of coastline**  
**10 Navigation Projects**  
**9 Jetties or breakwaters**  
**28 miles of channel**  
**51 acres of Anchorage area**





# Cocheco River, NH



**Project Depth: 7' MLLW**

**Last Dredged: 1907**

**Quantity: 14,500 cy Remaining**

**Material Type: Sand/Silt**

**Equipment Type: Mechanical dredge**

**Disposal Site: Upland CDF**

**Haul Distance: 3 miles**

**Issues: Dredging Windows (Ice), Narrow Channel, Contaminants**

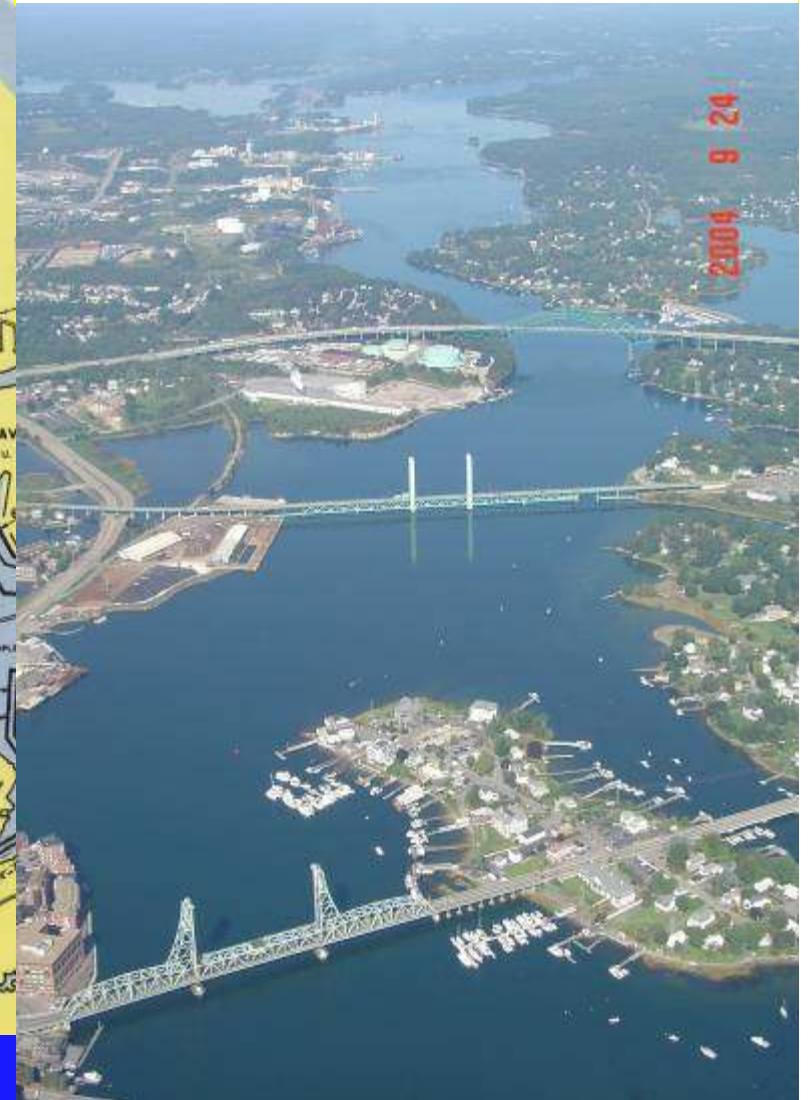
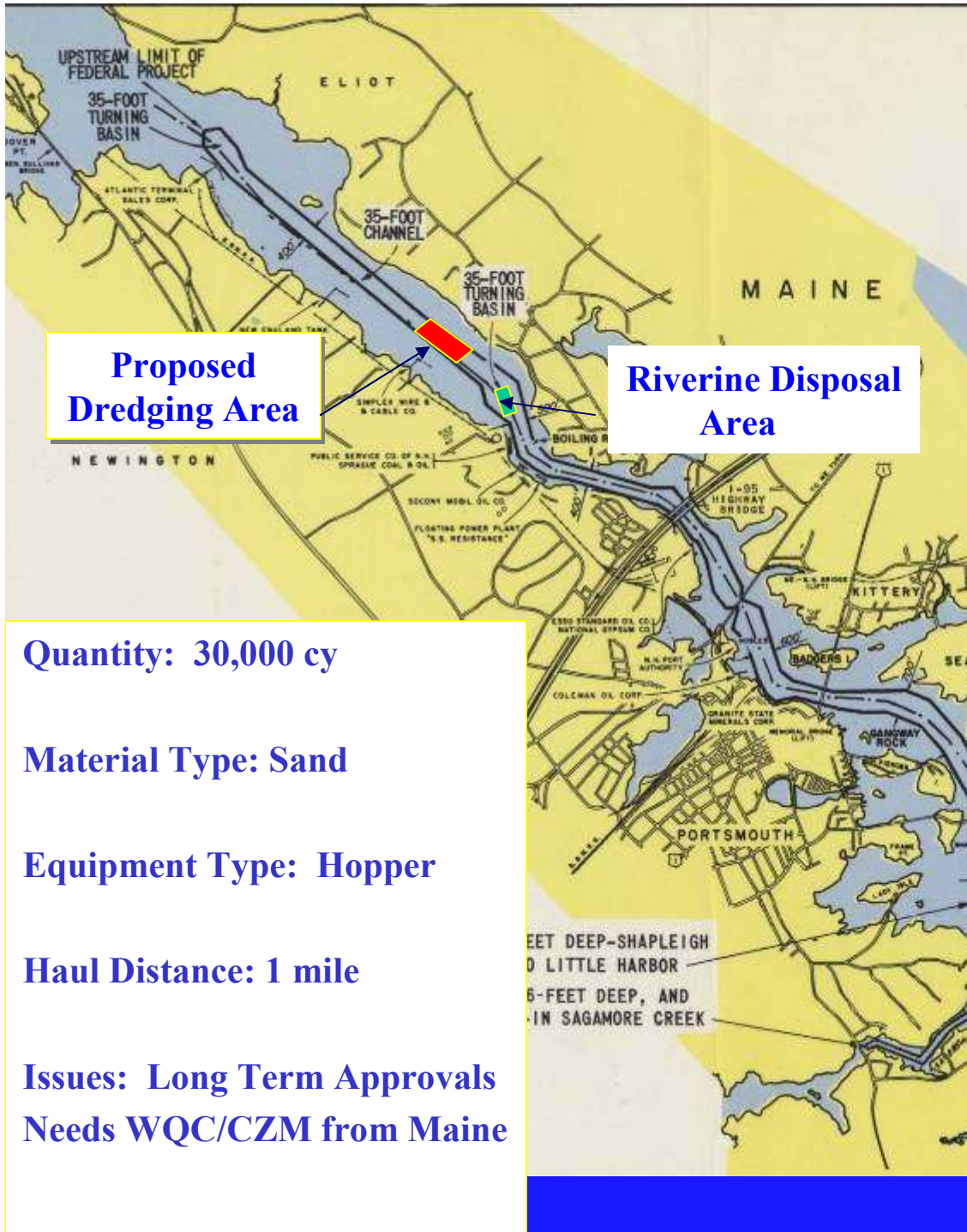


# Piscataqua River

**Project Depth: 35' MLLW**

**Last Dredged: 2000**

**Disposal Site: Within River**



**Quantity: 30,000 cy**

**Material Type: Sand**

**Equipment Type: Hopper**

**Haul Distance: 1 mile**

**Issues: Long Term Approvals  
Needs WQC/CZM from Maine**







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# Cocheco Financial Update

Funds Available in FY08:

\$2.8 Million

Funds Required to Complete Dredging:

\$2.1 Million

Funds Available for User Fees:

\$700k

Shortfall to Pay all User Fees:

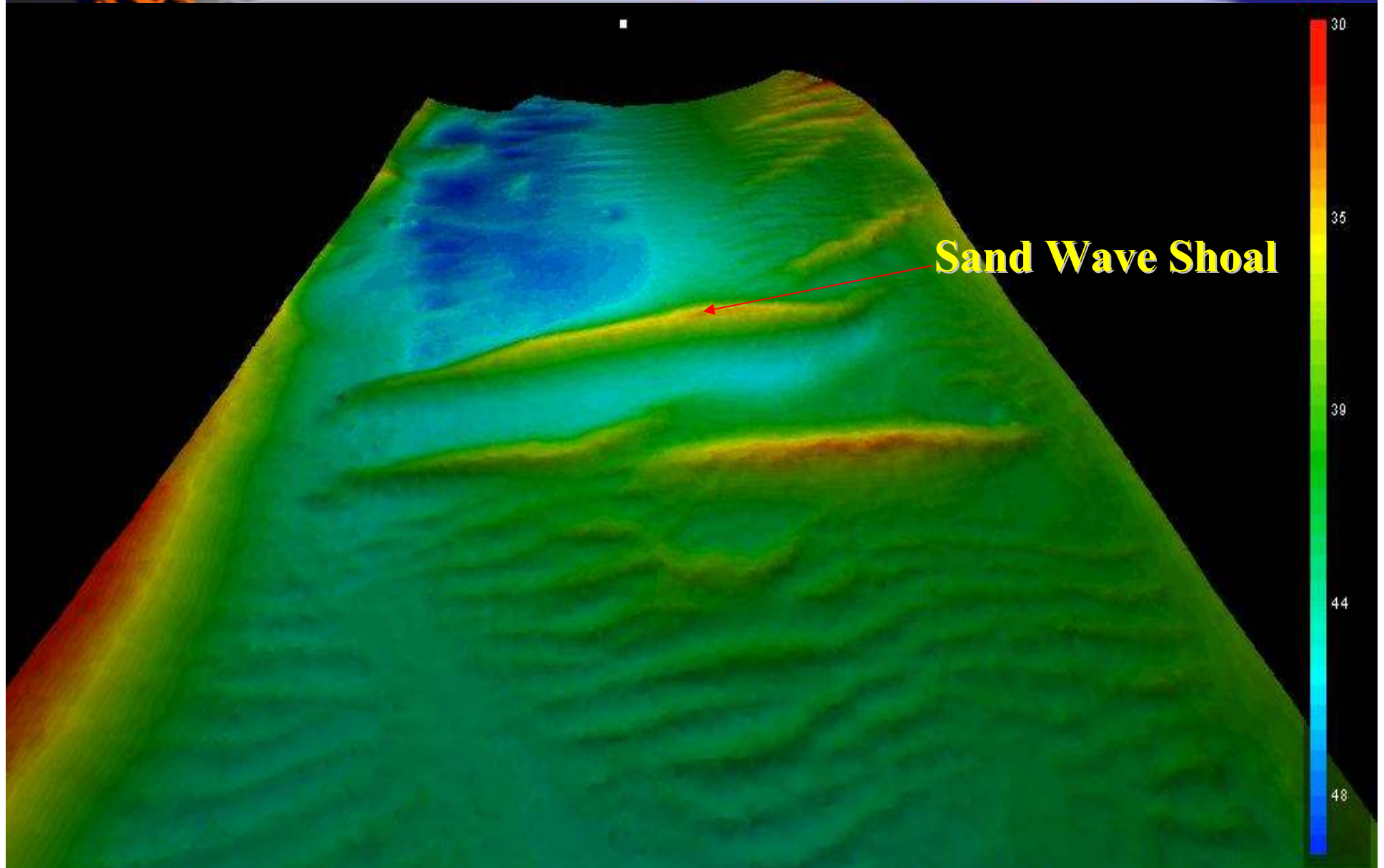
\$1.1 Million



US Army Corps  
of Engineers ®



# Simplex Shoal









## *New England District*

# Dredging History

<u>Year</u>	<u>Type/Volume</u>	<u>Disposal Location</u>
• 64-65	Imp. /64k cy	Open ocean @ Isle of Shoals
• 71	Maint./39k cy	Open ocean @ Isle of Shoals
• 79	Maint./35k cy	Upland @ Fuel Storage
• 84	Maint./43k cy	In-river (6000' downstream)
• 91	Maint./20k cy	In-river (3000' downstream)
• 00	Maint./8k cy	In-river (3000' downstream)





**New England District**

## **Simple(x) Analysis**

- Avg. (years) between all dredging events is 7 years
- Avg. (years) between dredging events where dredged material was taken completely out of the river system is 6.3 years
- Avg. (years) between dredging events where dredged material was placed in-river is 8 years



*New England District*

## Conclusions

- Analysis eliminates contention that we're repeatedly re-dredging the same material over and over again
- Maintenance dredging is required (albeit slightly) more frequently when material is removed from the river system
- We consider the slight difference negligible

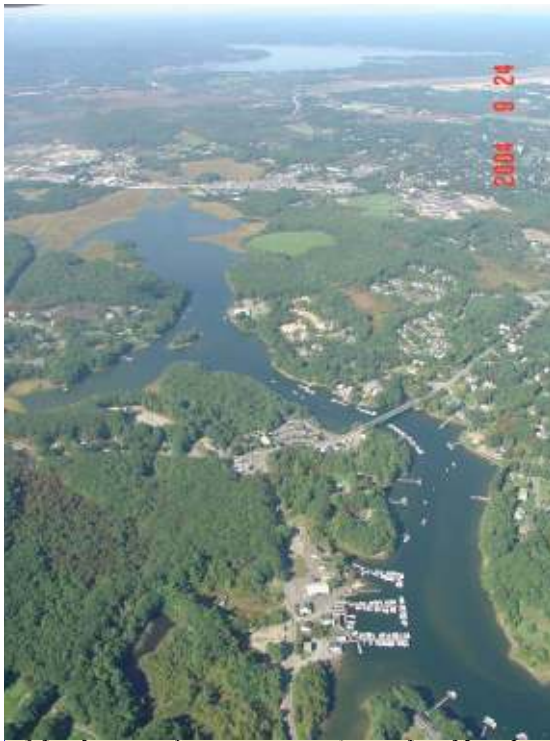




***New England District***

# **Piscataqua River Issues for Discussion**

- Lobster Issues?
- Sediment movement issues?
- Upland disposal areas?



# Sagamore Creek

**Project Depth: 6' MLLW**

**Last Dredged: 1957**

**Quantity: 5,000 cy**

**Material Type: Sand**

**Equipment Type: Mechanical dredge**

**Disposal Site: Nearshore, Wallis Sands Beach**

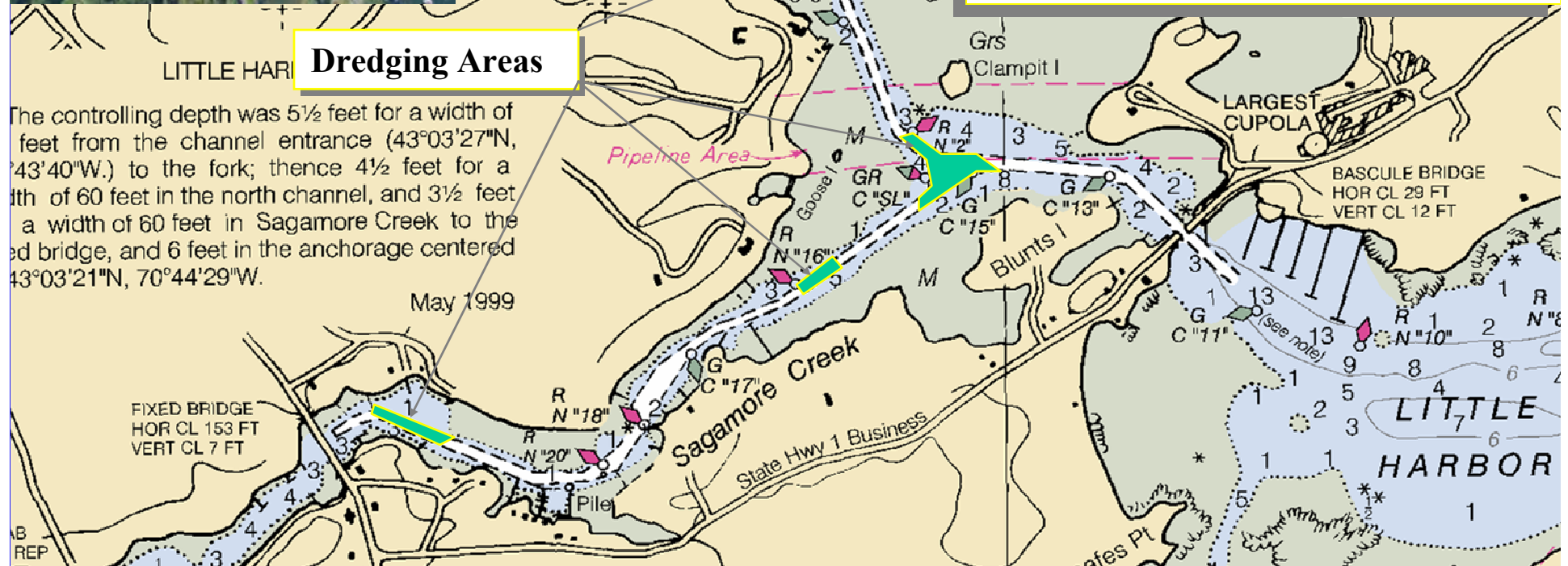
**Haul Distance: 4 miles each way**

**Issues: Constructability and Eelgrass (Avoidance)**

## Dredging Areas

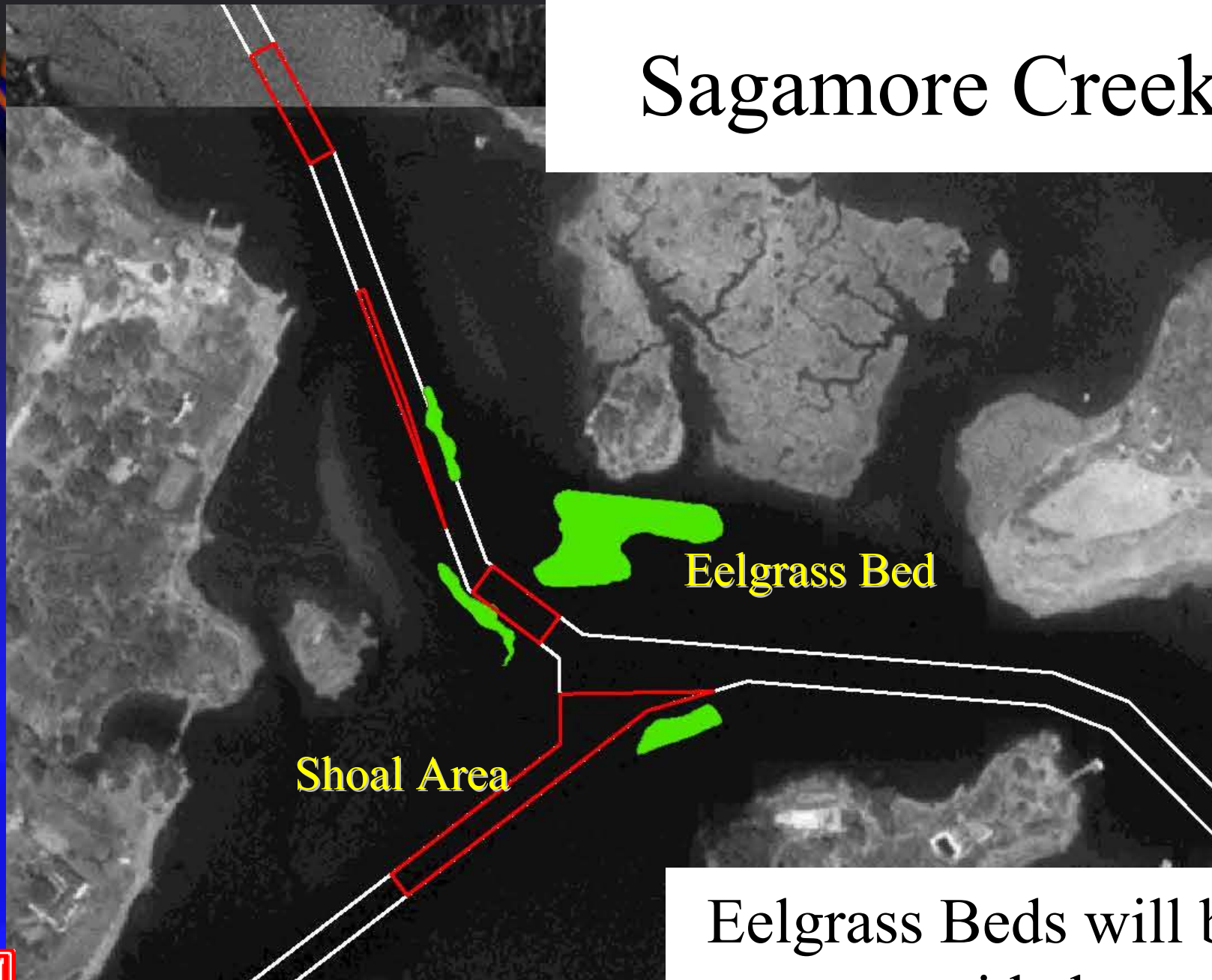
The controlling depth was 5½ feet for a width of 60 feet from the channel entrance (43°03'27"N, 70°43'40"W.) to the fork; thence 4½ feet for a width of 60 feet in the north channel, and 3½ feet for a width of 60 feet in Sagamore Creek to the fixed bridge, and 6 feet in the anchorage centered at 43°03'21"N, 70°44'29"W.

May 1999





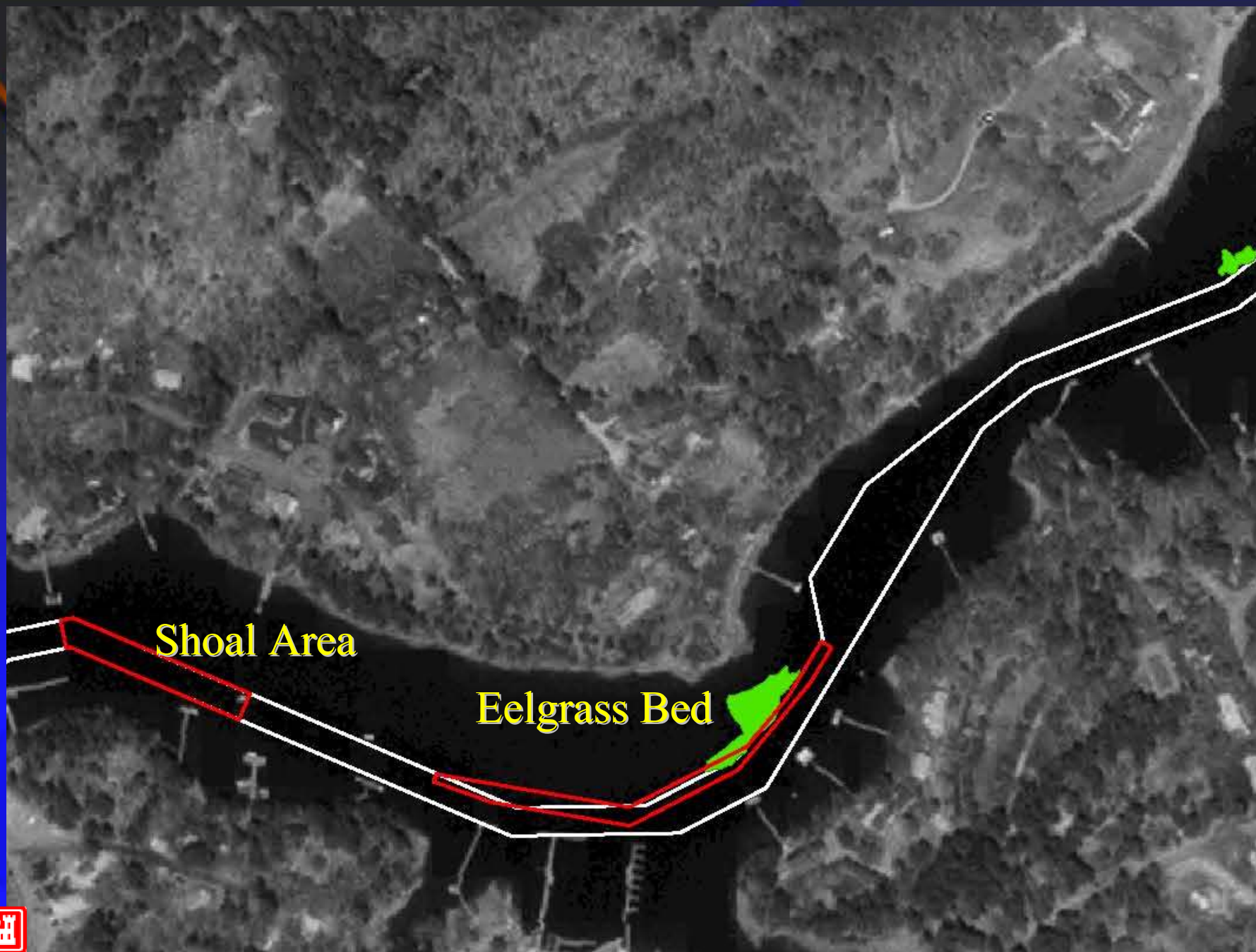
# Sagamore Creek



Eelgrass Beds will be avoided



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# Navigation Web Page

<http://www.nae.usace.army.mil/>



## NAVIGATION



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[Project Photos](#) [Useful Links](#)

### Projects

In New England



Search By States *New Hampshire*

\* Surveys shown are the most recent available. For information regarding previous surveys, see contact information below.

 Hydrographic surveys are in New England System's Microstation DGN format. To view you must have CADD software capable of reading this format. Click on the self extracting ZIP file below and save to your hard drive. Open the survey in your CADD or Bentley Viewer software.

 XYZ Data

 Hydrographic Surveys are in PDF format.

 Hydrographic Surveys are in PDF format.

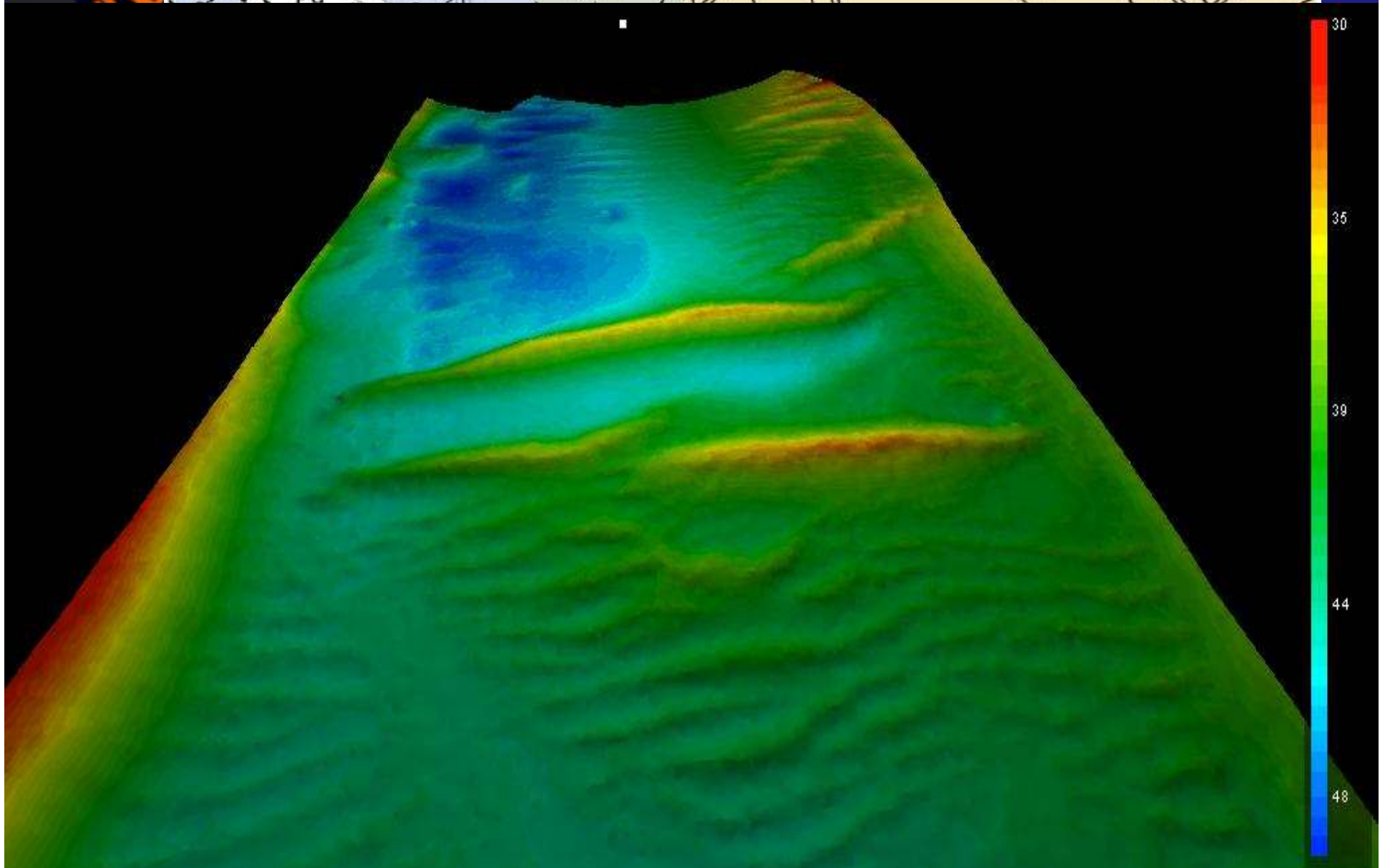
 Channel Condition Reports are in PDF format.

[Connecticut](#) [Maine](#) [Massachusetts](#) [New Hampshire](#) [New York](#)  
[Rhode Island](#) [Vermont](#)

Project Map	Title	Date	DGN Microstation XYZ Data PDF Drawing Meta Data File PDF Results Survey Project File						
	Bellamy River								
	Cocheco River	6/6/2007							
	Exeter River	6/1/1960							
	Hampton Harbor	1/6/2004							
	Isles of Shoals Harbor								
	Lake Winnepesaukee								
	Lamprey River	3/5/2004							
	Little Harbor	4/10/2001							
	Portsmouth Harbor & Piscataqua River	4/9/2007							
	Rye Harbor	12/5/2003							

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# Corps/NOAA Charting







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# QUESTIONS

